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Docket No.: 213.1152-CIP

UNITED STATES PATENT & TRADEMARK OFFICE

Examiner: Unknown

Art Unit: 1653

Applicant:

Hong Zhao, et al.

Serial No.:

10/822,205

Filed

April 9, 2004

For:

**POLYMERIC OLIGONUCLEOTIDE
PRODRUGS**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

May 31, 2005

Sir:

Pursuant to M.P.E.P. §609 and 37 C.F.R. §§1.56, 1.97-1.99, Applicants herewith submit form PTO-1449 (3 pages). It is noted that the Applicant have not enclosed a copy of the U.S. patent cited on form PTO-1449.

This submission does not represent that a search has been made or that no better art exists. While the term "references" is used in citing the documents called to the Examiner's attention herein, Applicants do not make any admission that each or all of them are "prior art" references within the meaning of the statutory and case law.

Applicants reserve the right to contend, where appropriate, that a patent asserted against any claim of the present application is not prior art under the facts and the law.

Applicants also reserve the right to present appropriate arguments and/or evidence to establish patentability over the references, should one or more of the references be applied against the claims of the present application.

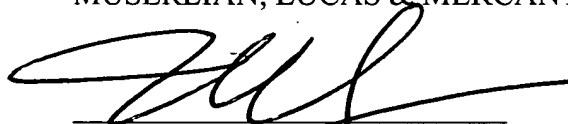
Applicants request that the Examiner independently determine those items which the Examiner would consider the most pertinent of all the references cited herein.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits. Accordingly, this document complies with the requirements of 37 C.F.R. §1.97(b). It is respectfully requested that the references cited in the accompanying PTO-1449 form be considered and made of record.

No fee is believed to be due. Any deficiency or overpayment concerning this document should be charged or credited to Deposit Account No. 02-2275.

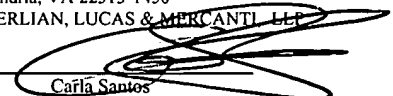
Respectfully submitted,

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Carla Santos

INFORMATION DISCLOSURE CITATION <i>(Use separate sheets if necessary)</i> <div style="border: 2px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> <div style="text-align: center;"> MAY 31 2005 PATENT & TRADEMARK OFFICE </div> </div>				Docket Number (Optional) 213.1152-CIP		Application Number 10/822,205		
				Applicant(s) Hong Zhao, et al.				
				Filing Date April 9, 2004		Group Art Unit 1653		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A1	4,904,582	02/27/1990	Tullis			06/11/1987	
	A2	5,706,218	12/30/1997	Urdea, et al.			04/13/1995	
U.S. PATENT APPLICATION PUBLICATIONS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A3	2004/0249178 A1	12/09/2004	Vargeese, et al.			02/13/2004	
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
	A4	Saghir Akhtar, ANTISENSE TECHNOLOGY: SELECTION AND DELIVERY OF OPTIMALLY ACTING ANTISENSE OLIGONUCLEOTIDES, Journal of Drug Targeting, Vol. 5, No. 4, pp. 225-234, 1998						
	A5	M. Ballico, et al., TRIPLE, MPEG-CONJUGATED, HELIX-FORMING OLIGONUCLEOTIDES (TRIEGXs):..., Bioconjugates Chem. 12, pp. 719-725, 2001						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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*EXAMINER INITIAL	OTHER DOCUMENTS	<i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
A6		Gian Maria Bonora, et al., SYNTHESIS AND CHARACTERIZATION OF HIGH-MOLECULAR MASS..., Bioconjugate Chem., Vol. 8, pp. 793-797
A7		G. M. Bonora, et al., SYNTHESIS BY HIGH-EFFICIENCY LIQUID-PHASE (HELP) METHOD OF OLIGONUCLEOTIDES..., Biological Procedures Online, Vol. 1, No. 1, May 14, 1998
A8		Gian Maria Bonora, et al., HELP (HIGH EFFICIENCY LIQUID PHASE) NEW OLIGONUCLEOTIDE..., Nucleic Acids Research, Vol. 18, No. 11, pp. 3155-3159, 1990
A9		Gian Maria Bonora, et al., ANTISENSE ACTIVITY OF AN ANTI-HIV OLIGONUCLEOTIDE CONJUGATED TO LINEAR..., Elsevier Science S.A., Il Farmaco, Vol. 53, pp. 634-637, 1998
A10		Traian V. Chirila, et al., THE USE OF SYNTHETIC POLYMERS FOR DELIVERY OF THERAPEUTIC ANTISENSE..., Biomaterials, Vol. 23, pp. 321-342, 2002
A11		Francesco P. Colonna, LARGE SCALE H.E.L.P. SYNTHESIS OF OLIGODEOXYNUCLEOTIDES..., Tetrahedron Letters, Vol. 32, No. 27, pp. 3251-3254, 1991
A12		Andres Jäschke, et al., AUTOMATED INCORPORATION OF POLYETHYLENE GLYCOL INTO SYNTHETIC..., Tetrahedron Letters, Vol. 34, No. 2, pp. 301-304, 1993
A13		Andres Jäschke, et al., SYNTHESIS AND PROPERTIES OF OLIGODEOXYRIBONUCLEOTIDE..., Nucleic Acids Research, Vol. 22, No. 22, pp. 4810-4817, 1994
A14		Ji Hoon Jeong, et al., NOVEL POLYMER-DNA HYBRID POLYMERIC MICELLES COMPOSED..., Bioconjugate Chem, Vol 12, pp. 917-923, 2001
A15		Takeo Kawaguchi, et al., STABILITY, SPECIFIC BINDING ACTIVITY, AND PLASMA CONCENTRATION..., Biol. Pharm. Bull., Vol. 18(3), pp. 474-476, 1995
A16		E. Liang, et al., OLIGONUCLEOTIDE DELIVERY: A CELLULAR PROSPECTIVE, Department of Pharmaceutics, Pharmazie, Vol. 8, 1999
A17		Valentina Rapozzi, et al., ANTIGENE EFFECT IN K562 CELLS OF A PEG-CONJUGATES..., Biochemistry, Vol. 41, pp. 502-510, 2002

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INITIAL**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

A18

Burckhard Seelig, et al., SITE-SPECIFIC MODIFICATION OF ENZYMATICALLY SYTHESIZED RNA: TRANSCRIPTION..., Tetrahedron Letters, Vol. 38, No. 44, pp. 7729-7732, 1997

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